

THE NEW HOSE PUMPS GENERATION



PERIBEST
pumps

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THE NEW HOSE PUMPS GENERATION

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“PeriBest Pumps was founded on extensive experience and knowledge of the sector, a highly skilled and trained workforce, and the passion and energy required for our profession and business. This combination of talent, effort and experience, without doubt, drives us towards our goal of becoming the world benchmark for industrial peristaltic pumps.”

David Gil
Managing Director

PERIBEST PUMPS

Our focus at PeriBest Pumps is to achieve full customer satisfaction at all times, as a result of an excellent identification of their needs, offering the best product, support and service so that their experience is always positive, and with a view to new business opportunities. This is based on a highly qualified workforce with more than 15 years in the industrial peristaltic pump sector.

The innovative design, the selection of equipment always geared towards finding the best solution for our customer, the competitiveness of the product range and the adaptability and professionalism of our team position PeriBest Pumps as a growing company of the future.



EXPERIENCE

We have a highly qualified workforce with extensive experience of more than 15 years in the industrial peristaltic pump sector.



KNOWLEDGE

We use our knowledge to the full on the limits and advantages of peristaltic technology so that we always select the best pump for each application.



INNOVATION

The developed product range is based on the advantages of hose pump technology, with a clear innovative drive to achieving a new differentiated product line that is adapted to customer needs and unrivalled in the sector.



CUSTOMER ORIENTATED

We work tirelessly to identify our customer needs, to give them the best support and service to achieve maximum satisfaction and an excellent customer experience.



COMPETITIVENESS

We offer high added value products that are well-positioned and very competitive within the main markets and with the best service guarantees.



FLEXIBILITY

Thanks to a perfect alignment of all the areas of the company, principally pump design and the production process, our response and delivery times are unmatched.

PERIBEST PUMPS HEAVY DUTY HOSE PUMPS WITH LARGE ROLLERS

PERIBEST PUMPS PERISTALTIC TECHNOLOGY.

- Maximum resistance to abrasion.
- Unmatched suction capability.
- Indefinite dry running.
- No valves or mechanical seals.
- Gentle and reversible pumping.
- Full dosing control.
- Industrial, corrosion resistant and food versions.
- Dosing accuracy of $\pm 1\%$.



ADVANTAGES OF PERIBEST PUMPS COMPARED WITH :

Hose pumps with shoe technology

Energy savings of up to 30%, ease of hose replacement, wide range of operation, low starting torque.

Progressive cavity pumps

Allow dry running and have no mechanical seals. Simple adaptation to pumping of corrosive products.

Diaphragm dosing pumps

Easy to install, better suction and better performance with solid and viscous products.

Air operated diaphragm pumps

Incomparable efficiency and absence of valves that make the passage of solids difficult.

DIFFICULT PRODUCTS ARE NOT A PROBLEM. WE LIKE THEM!

Abrasive products

Lime milk, activated carbon, sludges and slurries...

Corrosive products

Sodium hypochlorite, ferric chloride, hydrochloric acid...

Viscous products

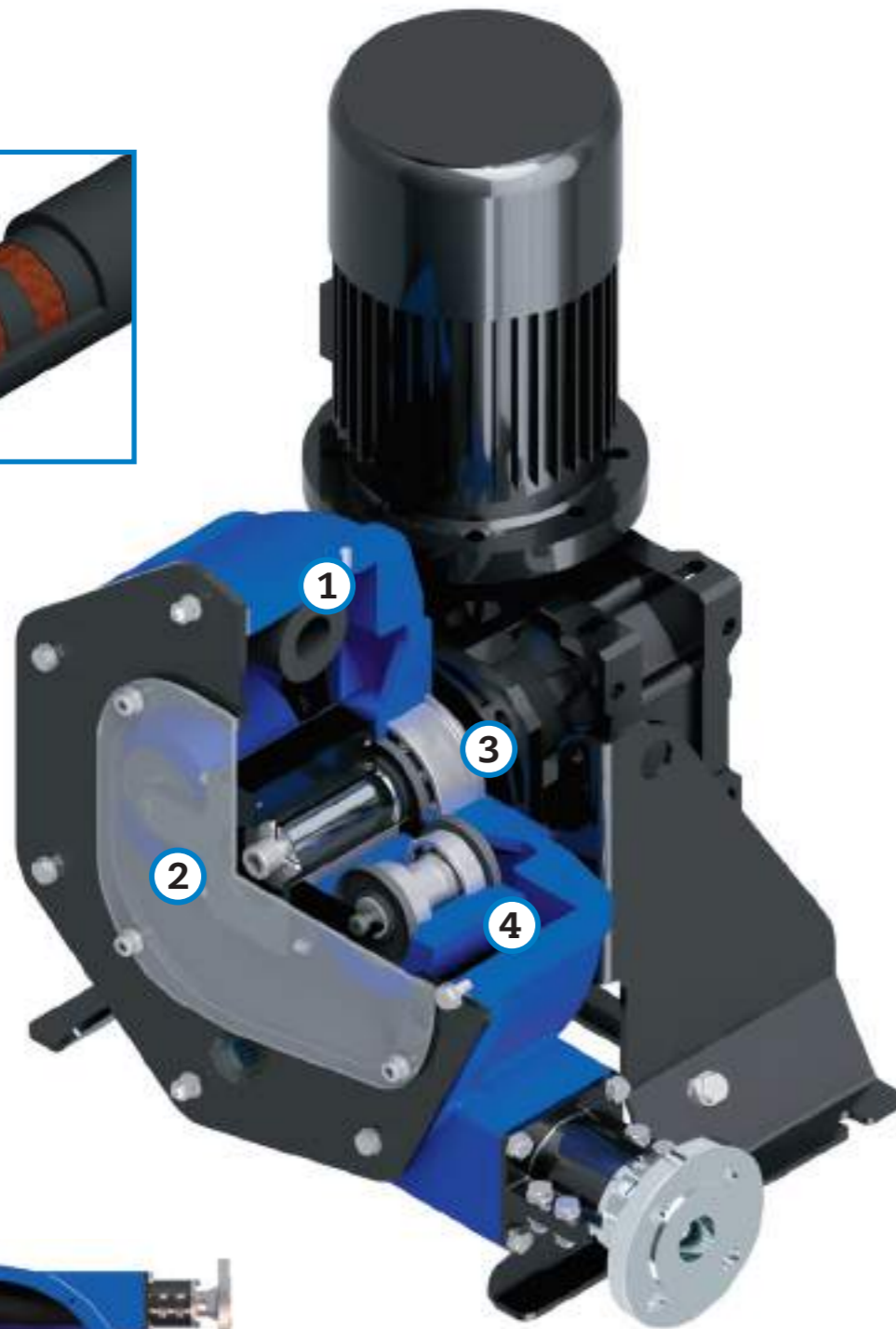
Water-based glues, greases, creams, resins...

Shear Sensitive products

Latex, polymers and flocculants, food products...

THE BEST PUMP ON THE MARKET

1



4



LATEST TECHNOLOGY PERISTALTIC HOSE.

1

High quality hose with unique manufacturing process. Extruded inner layer, high-density textile reinforcement and precision machined outer layer that ensures optimal compression and rapid installation thanks to control of the tolerance. Available materials compatible with all types of product and working conditions. Excellent performance against abrasion, temperature and corrosion.

**SAVING ON HOSE CONSUMPTION AND EASE OF INSTALLATION
DOWNTIME OPTIMISATION.**

EASE OF ASSEMBLY, OPERATION AND MAINTENANCE.

2

Fast and simple assembly, commissioning and maintenance. Pump design with innovative assembly that facilitates hose replacement. Maintenance-free pump and low lubricant level. Minimal waste generated.

**SAVING ON MAINTENANCE COSTS AND EASE OF ASSEMBLY.
LESS DOWNTIME.**

EXTREMELY HEAVY DUTY DESIGN FOR THE MOST DEMANDING APPLICATIONS UP TO 10 BAR.

3

Integrated oversized bearings to withstand the axial loads, large metal rollers with oversized bearings, secure and reliable connection system and very robust construction materials. Ideal pump for continuous work applications.

**UNMATCHED PUMP LIFE AND EXCELLENT EQUIPMENT PERFORMANCE
UNDER ANY OPERATING CONDITIONS HOWEVER DEMANDING.**

XXL ROLLER TECHNOLOGY.

4

Excellent compression of the hose with no friction and unmatched efficiency. Low energy consumption and better hose life due to roller size. Ease of operation with a minimal starting torque and a very wide frequency range.

**MAJOR ENERGY SAVINGS, HIGHER NUMBER OF HOSE WORKING HOURS
AND EASE OF OPERATION.**

PERIBEST I12 | I17 | I21

Ease of installation for accurate dosing.

The design of models I12, I17 and I21 is focused on achieving a small, heavy duty pump with XXL rollers that is unique on the market. The bearings installed between the rotor and the gear reducer fully absorb all the axial loads, which frees the reducer from fatigue and maximises its service life.

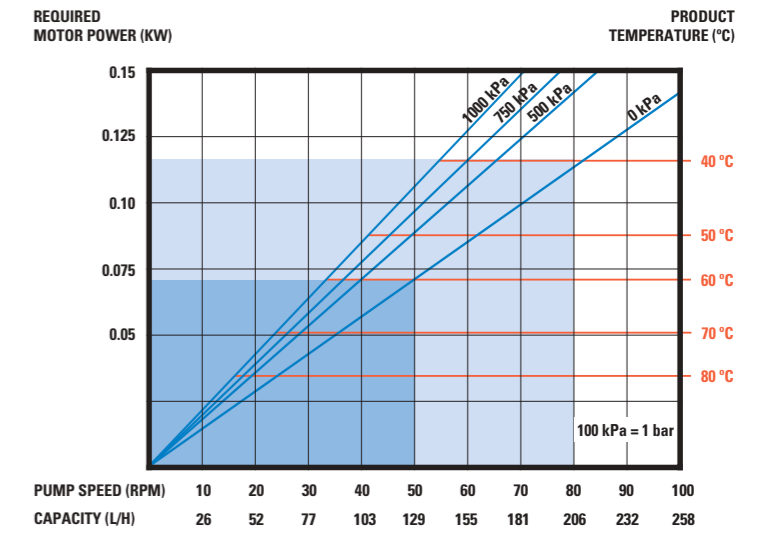
Thanks to the precision of all the compression components, to the differentiated manufacturing process of the peristaltic hose, as well as the quality of its materials, a durability is achieved that is unmatched on the market.



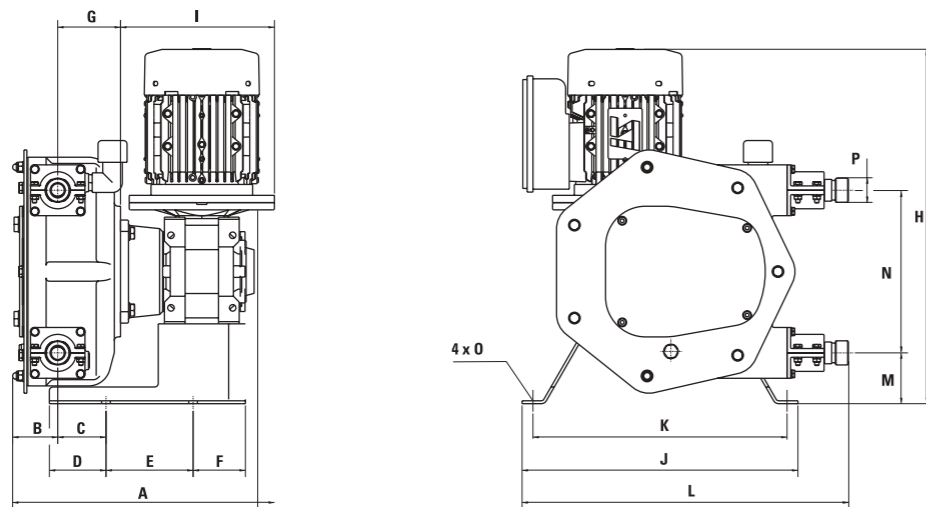
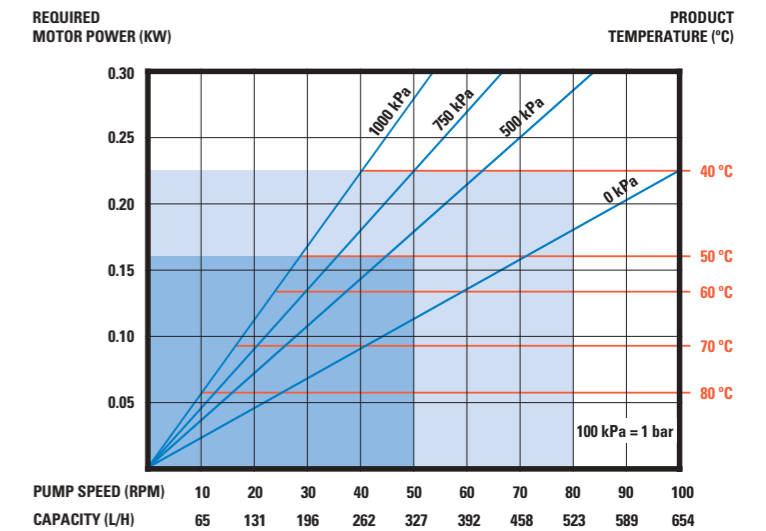
The PeriBest Hose pump models I12, I17 and I21 cover a flow rate range between 5 and 1,000 l/h. These robust pumps with compact vertical design are ideal for the dosing applications for all types of abrasive, corrosive, viscous or delicate products with discharge pressures of up to 10 bar.

Dosing of chemicals, additives, lime milk, activated carbon and polymers are some of the main applications that the low flow rate PeriBest pumps solve to perfection with maximum flow rate control, process efficiency and ease of installation and maintenance.

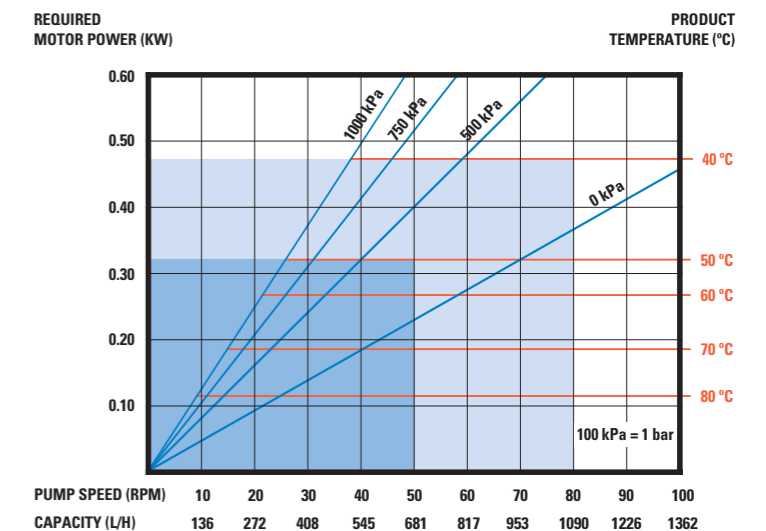
TECHNICAL SPECIFICATIONS	MODEL I12
Max. Flow (continuous)	205 l/h
Capacity	0,043 l/rev
Max. Discharge Pressure	10 bar
Max. Temperature	80 °C
Inner Diameter	13 mm.
Hose material	NR, EPDM, NBR (Food Grade) & Hypalon®
Connections	AISI-316, PP, PVDF (PTFE)



TECHNICAL SPECIFICATIONS	MODEL I17
Max. Flow (continuous)	500 l/h
Capacity	0,109 l/rev
Max. Discharge Pressure	10 bar
Max. Temperature	80 °C
Inner Diameter	16 mm.
Hose material	NR, EPDM, NBR (Food Grade) & Hypalon®
Connections	AISI-316, PP, PVDF (PTFE)



TECHNICAL SPECIFICATIONS	MODEL I21
Max. Flow (continuous)	1100 l/h
Capacity	0,227 l/rev
Max. Discharge Pressure	10 bar
Max. Temperature	80 °C
Inner Diameter	22 mm.
Hose material	NR, EPDM, NBR (Food Grade) & Hypalon®
Connections	AISI-316, PP, PVDF (PTFE)



MODEL	A*	B	C	D	E	F	G	H	I*	J	K	L	M	N	O	P
I12	240,3	47,5	50	54,3	80	32,8	55,8	367	137	265	235	305	62	116	12	BSP 3/8"
I17	292,1	55,6	61	79,5	120	25,5	66,5	436,5	170	320	285	377,6	63	195	12	BSP 3/4"
I21	360,6	62,1	66,5	78	120	72	86,5	488	212	380	350	449,5	70	224	12	BSP 1"

*Depending on the driver, dimensions could change.

PERIBEST 128 | 135

The most compact and heavy duty solution for medium flow rates.

The range of medium flow rates between 250 and 3,500 l/h is perfectly covered with the PeriBest pump models 128 and 135.

The competitiveness of these models, both from an economic and technological point of view, positions this product range as unrivalled on the market. It is a highly efficient and heavy duty unit with a hose compression system that provides maximum accuracy, effectiveness and durability.

The lack of valves and mechanical seals, the dry running capability and great suction power make the PeriBest peristaltic pump the best option for dosing or transferring highly abrasive, shear sensitive, viscous or corrosive products.



The robustness of the 128 and 135 pumps is based on the two integrated bearings, which absorb the axial loads between the rotor and the reducer, a rotor assembly and XXL rollers with maximum performance and innovative design, a compact and easy mounting system, together with very robust construction materials that are fully treated with the latest hardening and anti-corrosion processes on the market.

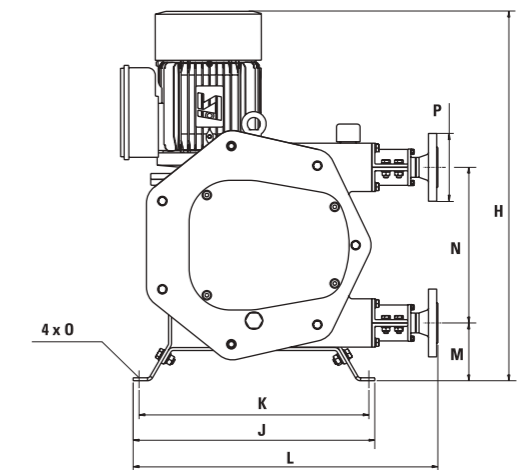
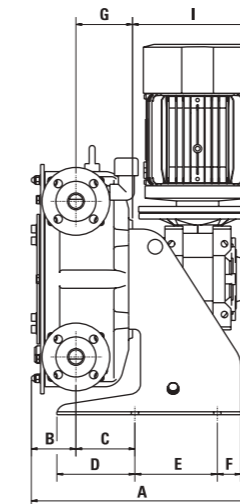
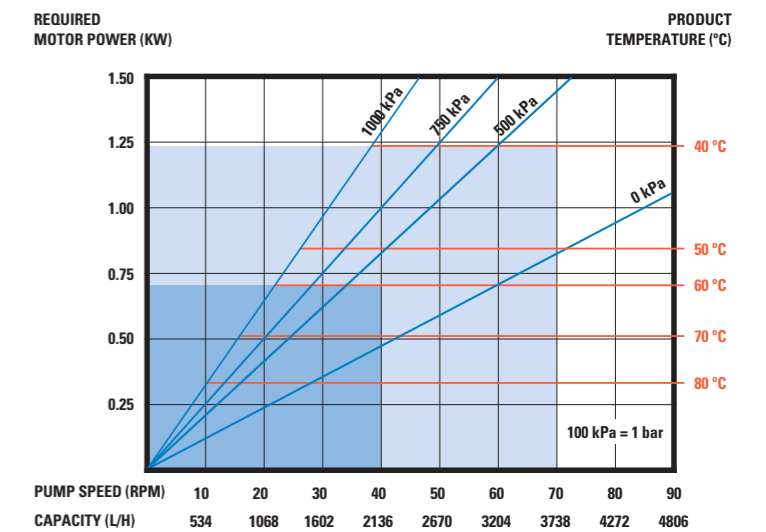
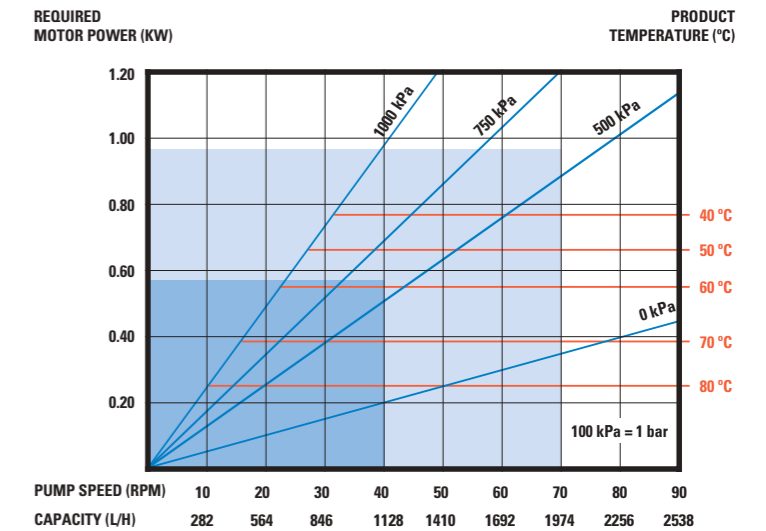


Like the smaller PeriBest pumps, these two models have exactly the same robustness and durability philosophy focused on a very compact, vertical design with a hose compression system using XXL rollers. This hose squeezing system with maximum surface contact, together with a differentiated and technically advanced manufacturing process of each peristaltic hose, maximises the service life of this component and reduces and optimises maintenance and operating costs.



TECHNICAL SPECIFICATIONS	MODEL 128
Max. Flow (continuous)	1900 l/h
Capacity	0,47 l/rev
Max. Discharge Pressure	10 bar
Max. Temperature	80 °C
Inner Diameter	28 mm.
Hose material	NR, EPDM and NBR (Food Grade)
Connections	AISI-316, PP, PVDF (PTFE)

TECHNICAL SPECIFICATIONS	MODEL 135
Max. Flow (continuous)	3600 l/h
Capacity	0,89 l/rev
Max. Discharge Pressure	10 bar
Max. Temperature	80 °C
Inner Diameter	35 mm.
Hose material	NR, EPDM and NBR (Food Grade)
Connections	AISI-316, PP, PVDF (PTFE)



MODEL	A*	B	C	D	E	F	G	H	I*	J	K	L	M	N	O	P
128	382,3	75,6	100	132,3	140	40	96	627	211	410	390	517	98	264	12	DN-25
135	408,6	85,1	134,5	161,8	140	40	112,5	677	211	460	440	583	105	330	12	DN-32

*Depending on the driver, dimensions could change.

PERIBEST 143 | 155

Transfer and dosing with maximum efficiency and durability.



The I43 and I55 models complete the PeriBest peristaltic pump line with a flow rate range between 1,000 and 17,000 l/h. This can be extended by means of a double-head pump up to 34,000 l/h. These two models are perfect for dosing operations of all types of product, where, thanks to the excellent flow rate control, to the constant flow rate in variable pressure applications and to the gentle pumping, accuracies of up to ±1% can be achieved.

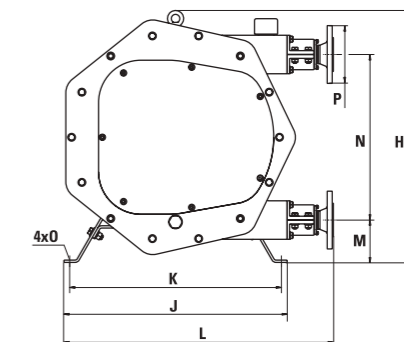
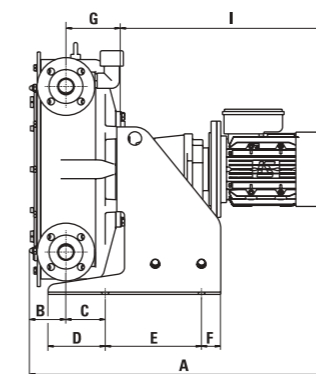
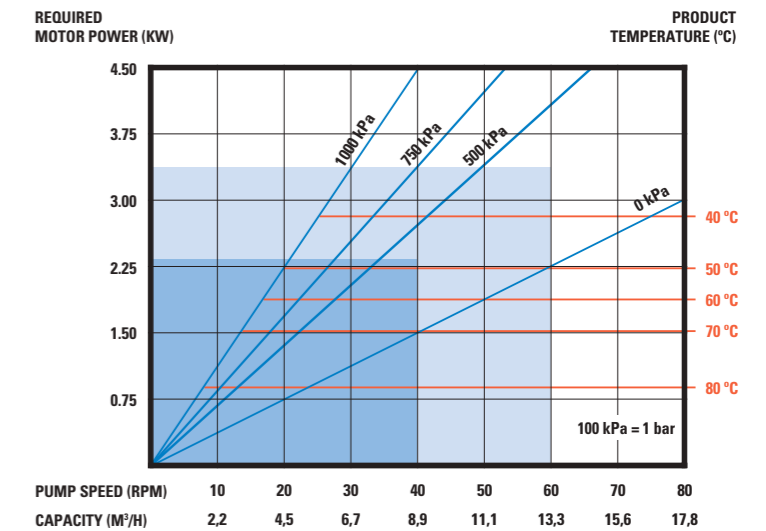
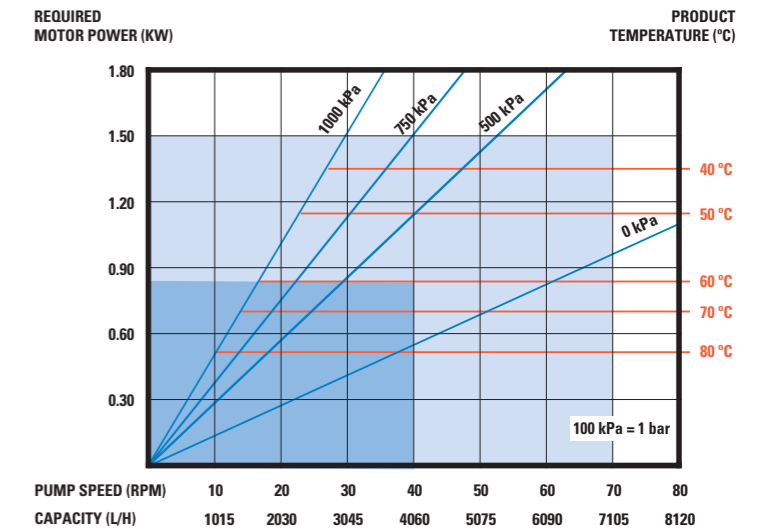
They are also ideal for transfer applications of fluids that are highly abrasive, viscous or contain solids in suspension, as the pump has a large solid size capacity. The lack of valves and mechanical seals, in addition to the heavy duty and horizontal monoblock design with bearing box, makes the PeriBest peristaltic pump a very robust and ideal option for any pumping application however difficult it may be. The indefinite dry running and the suction capacity of up to 9.5 mWc complements the capacities of the PeriBest product range.



The installation of the bearing box in the pump casing provides perfect alignment as well as full absorption of the loads on the reducer shaft. The bearing box is made up of a central hub which supports the reinforced and oversized bearings plus the pump shaft in order to achieve a compact and very robust assembly. The incorporation of this assembly provides unbeatable robustness and strength to the pump, even in the most severe conditions with pressures up to 10 bar and in continuous working applications. Maintenance costs are minimised, system downtime is reduced and the life of the reducer is extended.

TECHNICAL SPECIFICATIONS	MODEL I43
Max. Flow (continuous)	7000 l/h
Capacity	1,69 l/rev
Max. Discharge Pressure	10 bar
Max. Temperature	80 °C
Inner Diameter	43 mm.
Hose material	NR, EPDM and NBR (Food Grade)
Connections	AISI-316, PP, PVDF (PTFE)

TECHNICAL SPECIFICATIONS	MODEL I55
Max. Flow (continuous)	13000 l/h
Capacity	3,71 l/rev
Max. Discharge Pressure	10 bar
Max. Temperature	80 °C
Inner Diameter	55 mm.
Hose material	NR, EPDM and NBR (Food Grade)
Connections	AISI-316, PP, PVDF (PTFE)



MODEL	A*	B	C	D	E	F	G	H	I*	J	K	L	M	N	O	P
143	800,6	96,6	102	148,5	250	50	142	655	564	580	550	700	110	430	16	DN-40
155	947,1	107	95	129	380	39,5	156,5	820	684	690	660	820	143	554	16	DN-50

*Depending on the driver, dimensions could change.

CHEMICAL VERSION

The best solution for dosing corrosive products.

The chemical version of the PeriBest pump has the necessary changes to the unit to give a fully protected product that is resistant to the attack of highly corrosive acids and all kinds of difficult chemicals.

This version is principally made up of:

- The latest generation peristaltic hose in NR, EPDM or Hypalon®.
- Pump casing and front cover coating in TEFZEL®.
- Plastic connections in polypropylene or PVDF.
- Hose leakage sensor.
- Pump and roller lip seals in EPDM.
- Corrosion resistant rollers.
- Drainage system.

As result of these specifications, we achieve a fully corrosion resistant, very strong and heavy duty pump at a very competitive price. Without doubt, the best option for a corrosion resistant peristaltic pump on the market.



RECOMMENDED APPLICATIONS FOR THE CHEMICAL VERSION:

- Sodium hypochlorite dosing.
- Ferric chloride dosing.
- Hydrochloric acid dosing.
- Sulphuric acid dosing.
- And other acidic liquids in general.

FOOD GRADE VERSION

A new concept for pumping of food grade products.

The food grade version of the PeriBest hose pumps incorporates the necessary modifications to the unit to have a completely sanitary pump that is compatible with food & beverage and cosmetic products, which meets the current specifications and regulations.

This version is principally made up of:

- The latest generation peristaltic hose in FDA Food grade Nitrile.
- DIN 11851 or Tri-clamp sanitary connections.
- Easy and quick to remove front cover to aid CIP cleaning processes.
- Front removal roller.
- Stainless steel base plate and cover.
- Pump casing painted in sanitary white.

The use of this version optimises downtimes, facilitates cleaning processes and improves efficiency. The innovative peristaltic hose manufacturing process provides extra resistance against temperature, lengthens service life and reduces maintenance costs of the equipment.



RECOMMENDED APPLICATIONS FOR THE FOOD GRADE VERSION:

- Transfer of juices and sauces.
- Dosing of additives, colourings, flavourings and enzymes.
- Pumping of food products such as drinks, dairy and confectionery.
- Yeast pumping.
- Oil pumping.
- Wine transfer.

WATER TREATMENT

ADVANTAGES OF THE PERIBEST PERISTALTIC PUMPS.

- High resistance to abrasion during the transfer of sludges and slurries and in the dosing of highly abrasive products such as lime milk and activated carbon.
- Suction capacity of up to 9.5 mWc and optimal flow rate control for sampling applications.
- Ease of maintenance and operation for continuous work applications (24 h/7 days) due to the design and robustness of the equipment.
- Gentle pumping for dosing of polymers and flocculants. Maximum process efficiency.
- Chemical version with materials that are resistant to highly concentrated acids.
- Pumping of gaseous products without problems for indefinite periods.

SUCCESSFUL APPLICATIONS IN WATER TREATMENT.

- Transfer of sludges and slurries.
- Dosing of activated carbon and lime milk.
- Dosing of sodium hypochlorite and ferric chloride.
- Dosing of polymers and flocculants.
- Sampling.

PeriBest hose pump downtimes are minimal thanks to their optimised design. This advantage is very important in continuous work applications that are common in this sector. Dosing of highly corrosive products such as sodium hypochlorite or ferric chloride is perfectly compatible using the chemical version of the PeriBest pump.

Sludges, slurries and products with a high solids content or that are very abrasive such as lime milk are not a problem for the PeriBest pump. Its robustness is achieved with the use of very strong materials, integrated bearings, large-size rollers and a system of reliable and very secure connections that prevent the appearance of leaks during its operation.



CHEMICAL INDUSTRY

The chemical industry demands equipment with high technical performance and materials with good durability. Excessive downtime for maintenance is always a problem and this is precisely what the PeriBest peristaltic pump solves, compared with the traditional competition.

The robustness of the equipment as well as its ease of maintenance, and specific assembly versions for highly corrosive products such as the Chemical version, with high quality NR or EPDM hoses, front cover and pump casing coating in TEFZEL®, plastic connections and hose leakage sensor, make up a unit that is heavy-duty and resistant to difficult chemical products, whether due to abrasion, corrosion or operating conditions at the limit (high suction, dry running, high viscosity, presence of gases, etc.).

ADVANTAGES OF THE PERIBEST PERISTALTIC PUMPS.

- Resistance to corrosion thanks to the use of hoses and connections compatible with the great majority of process products.
- No mechanical seals or valves for the pumping of difficult, viscous, sticky products or that contain solids.
- Ease of maintenance and operation for continuous work applications (24 h/7 days) due to the design and robustness of the equipment.
- Chemical version with materials that are resistant to highly concentrated acids.
- Pumping of gaseous products without problems for indefinite periods.

SUCCESSFUL APPLICATIONS IN THE CHEMICAL INDUSTRY.

- Dosing of pigments and water-based paints.
- Transfer of highly abrasive products such as titanium dioxide.
- Dosing of resins.
- Dosing of detergents, creams and water-based glues.
- Dosing of all types of acid or base corrosive chemicals.





MINING INDUSTRY

ADVANTAGES OF THE PERIBEST HOSE PUMPS.

- Excellent resistance to abrasion in the pumping of products with high solid content.
- Ease of maintenance and operation for continuous work applications (24 h/7 day) due to the design and robustness of the equipment.
- Gentle pumping for dosing of polymers and flocculants. Maximum process efficiency.
- Pump with no valves or mechanical seals.
- Indefinite dry running.
- Reversible pump.

SUCCESSFUL APPLICATIONS IN THE MINING INDUSTRY.

- Transfer of mineral pulp, sludges and slurries.
- Dosing of cyanide and xanthate.
- Transfer or dosing of polymers.
- Dosing of reagents.

The mining sector is always looking for energy savings and reduction in consumption of water during metal extraction and separation processes.

The PeriBest hose pumps optimise these processes as they can pump fluids with high solid concentrations thanks to their robustness and resistance to abrasion, thus reducing consumption of water and the processes necessary for the separation and recirculation of it. The PeriBest peristaltic hoses contribute significantly to this resistance thanks to their manufacturing process, with strong reinforcement textile layers and an inner extruded layer. In this way, maintenance costs are optimised and production downtimes are reduced.

Gentle pumping and accurate dosing control provide maximum efficiency in the polymer dosing process, which reduces raw material costs of this product which is delicate and common in mining.

FOOD & BEVERAGE AND COSMETICS

The Food & Beverage and Cosmetics industry requires a sanitary design with fully compatible and non-contaminating materials in contact with the fluid, which is essential for complying with current specifications and regulations.

PeriBest has designed a pump in its food grade version that is fully suited to the pumping of food products. Its application is based on the use of food grade peristaltic hoses manufactured in FDA food grade Nitrile, DIN 11851 or Tri-clamp type sanitary connections and a design that facilitates CIP cleaning thanks to ease of dismantling.

The inner extruded layer of the peristaltic hose increases the life of this component, thus reducing the consumption of spares and maintenance operations. At the same time, it improves the performance of the cleaning process with temperatures of up to 80 °C.

ADVANTAGES OF THE PERIBEST HOSE PUMPS.

- Ease of maintenance and operation.
- Food grade version of the pump with hose in FDA food grade Nitrile, sanitary connections, easy and quick removal of front cover and front removal roller.
- Food grade internal lubricant.
- Gentle fluid pumping. Maximum process efficiency.
- Self-priming pump.
- Full control of dosing. $\pm 1\%$ accuracy.

SUCCESSFUL APPLICATIONS IN THE FOOD & BEVERAGE AND COSMETICS INDUSTRY.

- Pumping of diatomaceous earth. Kieselgur
- Transfer of viscous juices and sauces or with solid pieces in the mixture.
- Various additives, colourings and flavourings for food.
- Feeding to filling machines.



GERAMICS AND CONSTRUCTION INDUSTRY

ADVANTAGES OF THE PERIBEST HOSE PUMPS.

- High resistance to abrasion when transferring highly abrasive products.
- Low spares consumption and optimisation of the downtime processes.
- Dosing of very abrasive products such as barium carbonate and potassium permanganate.
- Suction capacity of up to 9.5 mWc.
- Ease of maintenance and operation of continuous work applications (24 h/7 days) due to the design and robustness of the equipment.

SUCCESSFUL APPLICATIONS IN THE CERAMICS AND CONSTRUCTION INDUSTRY.

- Dosing of very abrasive products such as barium carbonate and potassium permanganate.
- Transfer of ceramic barbotine.
- Dosing of additives and colourings for the cement.
- Transfer of low-density cement.

Both in the ceramics and construction industries, the pumping of all types of highly abrasive fluids is continuous. This is why pump wear and high spares consumption are the order of the day. With the use of PeriBest hose pumps, resistance to abrasion increases exponentially thanks to the robustness of the equipment, both due to design with very hard materials, and to the resistance to abrasion of the components in contact with the fluid, whether they are the latest generation peristaltic hoses or the stainless steel connections.

The improvement in spares consumption and the drastic reduction of downtimes and maintenance times optimise plant efficiency, reduce production costs and minimise product waste.



PAPER INDUSTRY

In the paper industry, it is usual to pump a large quantity of waste water with fibre residue, chemical substances for treatment, etc. In these cases the PeriBest peristaltic pumps are an excellent solution, both due to the high resistance to abrasion of the PeriBest latest generation peristaltic hoses and to the robustness of the equipment and for the convenience, control and durability of its components when pumping products such as calcium hydroxide, commonly used for water treatment.

Dry running and high solids capacity are two of the most notable advantages of the PeriBest pumps, when compared with traditional technologies such as diaphragm or aod pumps that clog up easily when pumping products with solids. Therefore, their capacity for pumping high-density pulps is excellent.

The low downtimes and the ease of installation and maintenance are other notable advantages of the PeriBest peristaltic pumps.

ADVANTAGES OF THE PERIBEST HOSE PUMPS.

- Accurate and controlled dosing of chemical products.
- High resistance to abrasion when transferring highly abrasive products.
- Lack of problematic components such as mechanical seals and valves.
- Low spares consumption and optimisation of the downtime processes.
- Dry running capability and suction power of up to 9.5 mWc.

SUCCESSFUL APPLICATIONS IN THE PAPER INDUSTRY.

- Dosing of chemicals and paint.
- Transfer of paper pulp.
- Dosing of lime milk.
- Dosing of additives and colourings.
- Dosing and transfer of glues.



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